

WHAT IS CLAIMED IS:

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1. ~~An image processing apparatus comprising:~~
position determination means for determining from image
information indicating a captured second image which
includes a bright point disposed on a first image the
position of the bright point; and

blinking-pattern detection means for binarizing the
image information to detect the blinking pattern of the
~~bright point disposed on the first image.~~

2. ~~An image processing apparatus according to Claim 1,~~
wherein said position determination means compensates the
position of the bright point on the second image to
determine the position of the bright point on the first
image.

3. An image processing apparatus according to Claim 1,
wherein the second image is taken by a flow pickup method,
and

said blinking-pattern detection means converts the
image information to two-dimensional data and binarizes the
data to detect the blinking pattern of the bright point
disposed on the first image.

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4. ~~An image processing method comprising:~~

a position determination step of determining from image information indicating a captured second image which includes a bright point disposed on a first image the position of the bright point; and

a blinking-pattern detection step of binarizing the image information to detect the blinking pattern of the bright point disposed on the first image.

5. A providing medium for providing a computer-readable program which makes an image processing apparatus execute processing, said processing comprising:

a position determination step of determining from image information indicating a captured second image which includes a bright point disposed on a first image the position of the bright point; and

a blinking-pattern detection step of binarizing the image information to detect the blinking pattern of the ~~bright point disposed on the first image.~~

6. An image processing apparatus for processing an image of an object having four points of which the mutual relative positions are known, comprising:

first calculation means for calculating the gradient of the object in a three-dimensional space from the positions

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of the four points on the image; and

second calculation means for calculating the position of the object in the three-dimensional space from the gradient of the object in the three-dimensional space calculated by said first calculation means and the distances between the four points.

7. An image processing method for an image processing apparatus that processes an image of an object having four points of which the mutual relative positions are known, comprising:

a first calculation step of calculating the gradient of the object in a three-dimensional space from the positions of the four points on the image; and

a second calculation step of calculating the position of the object in the three-dimensional space from the gradient of the object in the three-dimensional space calculated in said first calculation step and the distances between the four points.

8. A providing medium for providing a computer-readable program which makes an image processing apparatus that processes an image of an object having four points of which the mutual relative positions are known execute processing, said processing comprising:

a first calculation step of calculating the gradient of the object in a three-dimensional space from the positions of the four points on the image; and

a second calculation step of calculating the position of the object in the three-dimensional space from the gradient of the object in the three-dimensional space calculated in said first calculation step and the distances between the four points.

9. ~~A presentation system comprising:~~

image display means for displaying a first image;

pointing means for pointing a predetermined position on the first image by a bright point;

pickup means for capturing a second image which includes the bright point pointed on the first image;

image processing means for determining the position of the bright point on the first image from image information indicating the second image and for binarizing the image information to detect the blinking pattern of the bright point on the first image; and

combination means for combining the first image correspondingly to the position of the bright point and the blinking pattern of the bright point detected by said image processing means.

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